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Prepn. of human serum albumin - by culturing cells transformed with a plasmid contg. AOX1 promoter and HSA gene

Patent Assignee: GREEN CROSS CORP (GREC)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 6022784	A	19940201	JP 92203208	A	19920708	199409 B

Priority Applications (No Type Date): JP 92203208 A 19920708

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 6022784	A		11	C12P-021/00	

Abstract (Basic): JP 6022784 A

Human serum albumin (HSA) is prepared as follows, (1) a plasmid is constructed carrying compsns. of (a) AOXI promoter which contains DNA sequence (I) and (b) HSA; (2) the plasmid is introduced into a host for transformation; and (3) the obtd. transformant is cultured to produce HSA.

CCAGATTCTG GTGGGAATAC TGCTGATAGC CTAACGTTCA TGATCATAAT CTAACGTTC
TAACCCCTAC TTGGACTGGC AATATATAAA CAGGAGGAAA CTGCCAGTC GAAAACCTTC
TTCCTTATCA TCATTATTAG CTTACTTTCA TAATTGTGAC TGTTTCCAAT TGACAAGCTT
TTGATTCTAA CGACTTTTAA CGACAATTG AGAAGATCAA AAAACAACCTA ATTATTGAA ACG
(I)

USE/ADVANTAGE - By culturing a transformant e.g. Pichia yeast under controlling methanol concn. in the medium, HSA can be secreted into the medium high efficiently. Also highly purified HSA can be prepared by treating the cultured soln. with combination methods of ultrafiltration membrane, heat treatment, cationic ion exchange chromatography, hydrophobic chromatography, etc.

In an example, Pichia yeast GCP 104 and 101 were used. As promoter of HSA gene, Pichia yeast IFO-1013 derived AOXI promoter was used.

Dwg.0/3

Title Terms: PREPARATION; HUMAN; SERUM; ALBUMIN; CULTURE; CELL; TRANSFORM;
PLASMID; CONTAIN; PROMOTE; GENE

Derwent Class: B04; D16

International Patent Class (Main): C12P-021/00

International Patent Class (Additional): C12N-015/14; C12N-015/81;

C12P-021/00; C12R-001-84

File Segment: CPI